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(6) *Speed indications.* The dynamometer speed display shall have a range of 0–60 mph, and a resolution and accuracy of at least 1 mph.

(7) *Safety interlock.* A roll speed sensor and safety interlock circuit shall be provided which prevents the application of the roll brakes and upward lift movement at any roll speed above 0.5 mph.

(b) The dynamometer shall produce the load speed relationships specified in paragraphs (III) and (V) of appendix B to this subpart.

(III) Transient Emission Test Equipment
[Reserved]

(IV) Evaporative System Purge Test Equipment
[Reserved]

(V) Evaporative System Integrity Test Equipment [Reserved]

[57 FR 52987, Nov. 5, 1992, as amended at 58 FR 59367, Nov. 9, 1993]

**APPENDIX E TO SUBPART S OF PART 51—
TRANSIENT TEST DRIVING CYCLE**

(I) *Driver's trace.* All excursions in the transient driving cycle shall be evaluated by the procedures defined in §86.115–78(b)(1) and §86.115(c) of this chapter. Excursions exceeding these limits shall cause a test to be void. In addition, provisions shall be available to utilize cycle validation criteria, as described in §86.1341–90 of this chapter, for trace speed versus actual speed as a means to determine a valid test.

(II) *Driving cycle.* The following table shows the time speed relationship for the transient IM240 test procedure.

Second	MPH
0	0
1	0
2	0
3	0
4	0
5	3
6	5.9
7	8.6
8	11.5
9	14.3
10	16.9
11	17.3
12	18.1
13	20.7
14	21.7
15	22.4
16	22.5
17	22.1
18	21.5
19	20.9
20	20.4
21	19.8
22	17
23	14.9
24	14.9
25	15.2

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Second	MPH
26	15.5
27	16
28	17.1
29	19.1
30	21.1
31	22.7
32	22.9
33	22.7
34	22.6
35	21.3
36	19
37	17.1
38	15.8
39	15.8
40	17.7
41	19.8
42	21.6
43	23.2
44	24.2
45	24.6
46	24.9
47	25
48	25.7
49	26.1
50	26.7
51	27.5
52	28.6
53	29.3
54	29.8
55	30.1
56	30.4
57	30.7
58	30.7
59	30.5
60	30.4
61	30.3
62	30.4
63	30.8
64	30.4
65	29.9
66	29.5
67	29.8
68	30.3
69	30.7
70	30.9
71	31
72	30.9
73	30.4
74	29.8
75	29.9
76	30.2
77	30.7
78	31.2
79	31.8
80	32.2
81	32.4
82	32.2
83	31.7
84	28.6
85	25.1
86	21.6
87	18.1
88	14.6
89	11.1
90	7.6
91	4.1
92	0.6
93	0
94	0
95	0
96	0
97	0
98	3.3
99	6.6

Environmental Protection Agency

	Second	MPH
100	9.9	
101	13.2	
102	16.5	
103	19.8	
104	22.2	
105	24.3	
106	25.8	
107	26.4	
108	25.7	
109	25.1	
110	24.7	
111	25.2	
112	25.4	
113	27.2	
114	26.5	
115	24	
116	22.7	
117	19.4	
118	17.7	
119	17.2	
120	18.1	
121	18.6	
122	20	
123	20.7	
124	21.7	
125	22.4	
126	22.5	
127	22.1	
128	21.5	
129	20.9	
130	20.4	
131	19.8	
132	17	
133	204	
134	17.1	
135	15.8	
136	15.8	
137	17.7	
138	19.8	
139	21.6	
140	22.2	
141	24.5	
142	24.7	
143	24.8	
144	24.7	
145	24.6	
146	24.6	
147	25.1	
148	25.6	
149	25.7	
150	25.4	
151	24.9	
152	25	
153	25.4	
154	26	
155	26	
156	25.7	
157	26.1	
158	26.7	
159	27.3	
160	30.5	
161	33.5	
162	36.2	
163	37.3	
164	39.3	
165	40.5	
166	42.1	
167	43.5	
168	45.1	
169	46	
170	46.8	
171	47.5	
172	47.5	
173	47.3	
	47.2	

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	Second	MPH
174	47.2	
175	47.4	
176	47.9	
177	48.5	
178	49.1	
179	49.5	
180	50	
181	50.6	
182	51	
183	51.5	
184	52.2	
185	53.2	
186	54.1	
187	54.6	
188	54.9	
189	55	
190	54.9	
191	54.6	
192	54.6	
193	54.8	
194	55.1	
195	55.5	
196	55.7	
197	56.1	
198	56.3	
199	56.6	
200	56.7	
201	56.7	
202	56.3	
203	56	
204	55	
205	53.4	
206	51.6	
207	51.8	
208	52.1	
209	52.5	
210	53	
211	53.5	
212	54	
213	54.9	
214	55.4	
215	55.6	
216	56	
217	56	
218	55.8	
219	55.2	
220	54.5	
221	53.6	
222	52.5	
223	51.5	
224	50.5	
225	48	
226	44.5	
227	41	
228	37.5	
229	34	
230	30.5	
231	27	
232	23.5	
233	20	
234	16.5	
235	13	
236	9.5	
237	6	
238	2.5	
239	0	

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